



FORM PTO-1449

## THIRD INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1875.0370000APPLICATION NO.  
09/849,537APPLICANT  
Zhang *et al.*FILING DATE  
May 7, 2001GROUP  
2822

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ML	AA1	5,045,921	09/1991	Lin <i>et al.</i>			
	AB1	5,397,917	03/1995	Ommen <i>et al.</i>			
	AC1	5,490,324	02/1996	Newman			
	AD1	5,578,869	11/1996	Hoffman <i>et al.</i>			
	AE1	5,642,261	06/1997	Bond <i>et al.</i>			
	AF1	5,796,170	08/1998	Marcantonio			
	AG1	5,798,909	08/1998	Bhatt <i>et al.</i>			
	AH1	5,843,808	12/1998	Karnazos			
	AI1	5,844,168	12/1998	Schueller <i>et al.</i>			
	AJ1	5,889,324	03/1999	Suzuki			
ML	AK1	5,903,052	05/1999	Chen <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
ML	AL1	10-247703	09/1998	Japan	H01L	23/12	Yes No
ML	AM1	61-49446	03/1986	Japan	H01L	23/26	Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ML	AR	1	English-language Abstract of JP 10-247703, published September 14, 1998, 1 page.
ML	AS	1	Karnazos, M., "An EPBGA Alternative," <i>Advanced Packaging</i> , June 1998, pages 90, 92, 94, and 96.
ML	AT	1	English-language Abstract of JP 61-49466, published March 11, 1986, 1 page.

EXAMINER

DATE CONSIDERED

10/20/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ML	AA2	5,999,415	12/1999	Hamzehdoost			
	AB2	6,028,358	02/2000	Suzuki			
	AC2	6,057,601	05/2000	Lau <i>et al.</i>			
	AD2	6,122,171	09/2000	Akram <i>et al.</i>			
	AE2	6,212,070 B1	04/2001	Atwood <i>et al.</i>			
	AF2	6,242,279 B1	06/2001	Ho <i>et al.</i>			
	AG2	6,380,623 B1	04/2002	Demore			
	AH2	2002/0053731 A1	—	Chao <i>et al.</i>	257	706	06/15/2001
	AI2	2002/0072214 A1	—	Yuzawa <i>et al.</i>	438	613	11/13/2001
	AJ2	2002/0096767 A1	—	Cote <i>et al.</i>	257	738	01/25/2001
ML	AK2	2002/0098617 A1	—	Lee <i>et al.</i>	438	106	09/18/2001

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

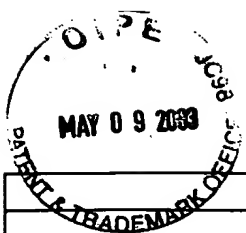
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ML	AR	2	Zhao, Z., Ph.D., "Thermal Design and Modeling of Packages," <i>IEEE Short Courses</i> , Broadcom Corporation, October 25, 2000, 95 pages.
ML	AS	2	Zhao, Z., Ph.D., "IC Package Thermal Issues and Thermal Design," ASAT, Inc., January 14, 2000, 98 pages, presented at 2 <sup>nd</sup> International Icepak User's Group Meeting, Palo Alto, CA, on February 7, 2000.
	AT	2	

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	APPLICANT Zhang <i>et al.</i>	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ML	AA3	2002/0180040 A1	—	Camenforte <i>et al.</i>	257	738	05/30/2001
	AB3	5,438,216	08/1995	Juskey <i>et al.</i>			
	AC3	5,801,432	09/1998	Rostoker <i>et al.</i>			
	AD3	5,953,589	09/1999	Shim <i>et al.</i>			
	AE3	6,069,407	05/2000	Hamzehdoost			
ML	AF3	09/783,034	—	Khan <i>et al.</i>	—	—	02/15/2001
	AG3	10/020,207	—	Khan <i>et al.</i>	—	—	12/18/2001
	AH3						
	AI3						
	AJ3						
	AK3						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	3	
	AS	3	
	AT	3	

EXAMINER 	DATE CONSIDERED 05/20/03
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